

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P947325

Luminaire Tested: **GALN-SB2C-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8674 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

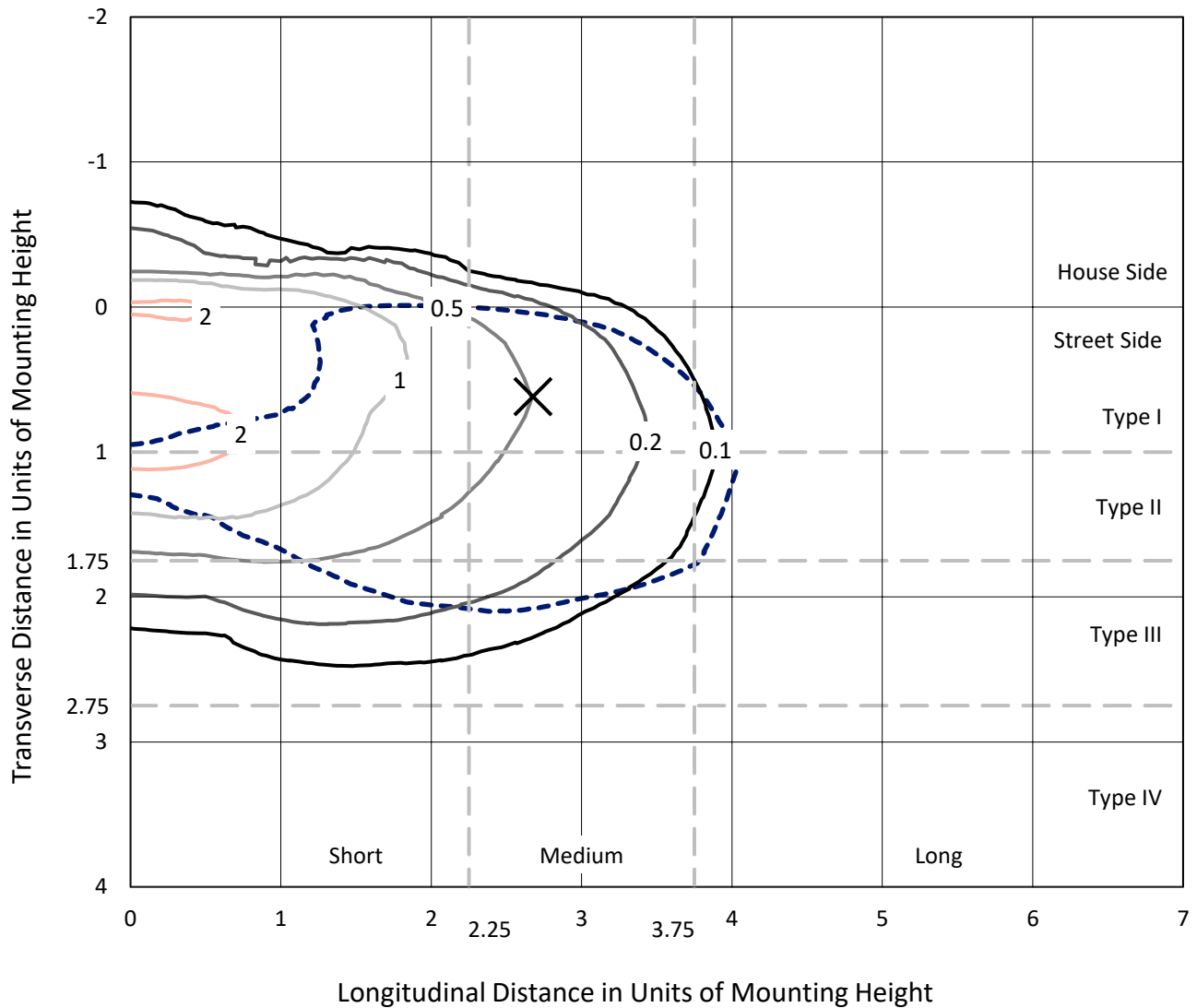
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

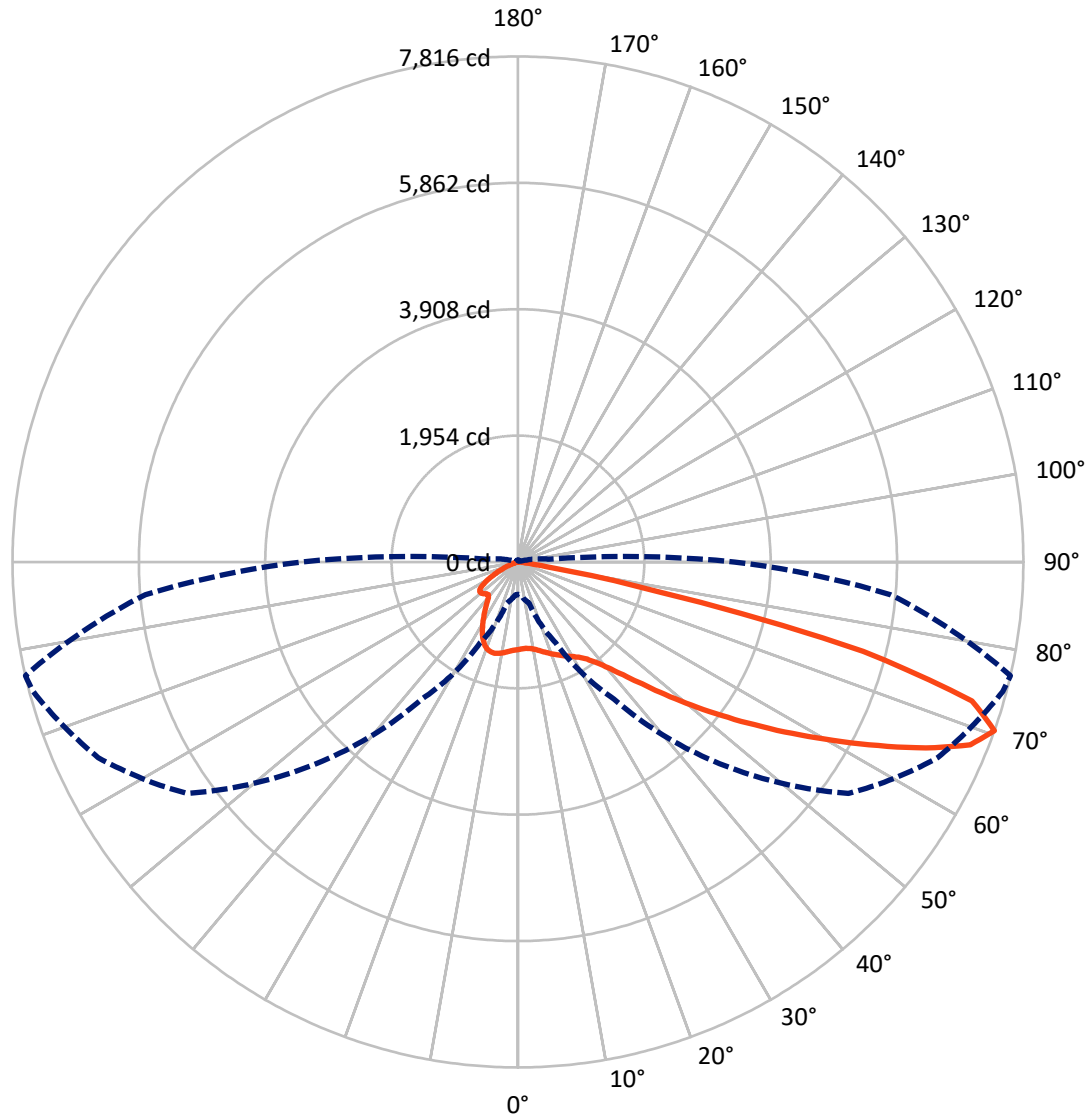
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	914.4	0.0	914.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7759.6	0.0	7759.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	8674.0	0.0	8674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.3
10°-20°	276.8	3.2
20°-30°	428.1	4.9
30°-40°	776.9	9.0
40°-50°	1466.5	16.9
50°-60°	2119.0	24.4
60°-70°	2255.6	26.0
70°-80°	1195.3	13.8
80°-90°	39.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8674.0	100.0
0°-180°	8674.0	100.0

Coefficient of Utilization



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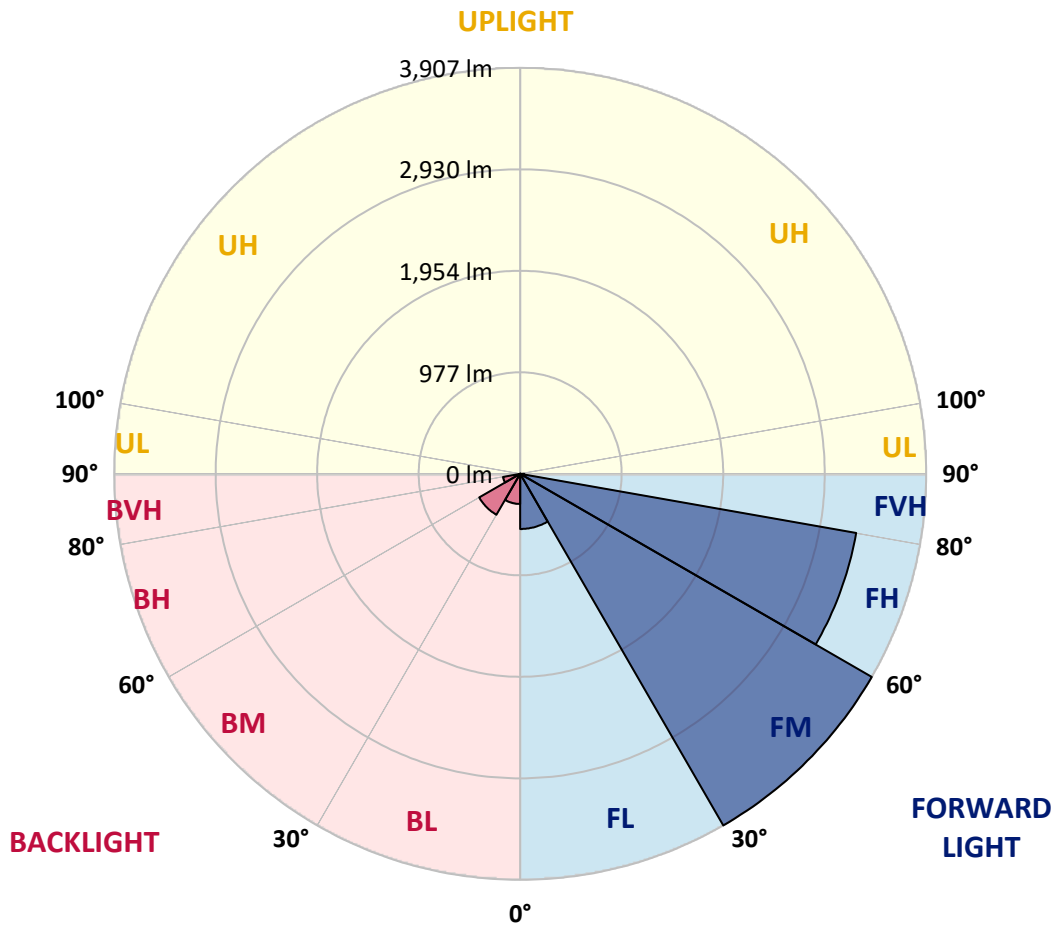
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.1	6.1			
FM (30°-60°)	3907.2	45.0			
FH (60°-80°)	3283.2	37.9			G2/5000
FVH (80°-90°)	38.2	0.4			G1/100
BL (0°-30°)	290.5	3.3	B1/500		
BM (30°-60°)	455.2	5.2	B1/1000		
BH (60°-80°)	167.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0
2.5°	1270.3	1281.8	1280.1	1287.8	1290.5	1301.5	1312.5	1327.2	1343.7	1343.1
5°	1198.5	1210.0	1212.8	1223.2	1236.3	1253.3	1275.8	1305.3	1336.0	1340.9
7.5°	1113.6	1125.7	1132.8	1153.6	1177.7	1212.8	1249.5	1292.7	1343.7	1350.8
10°	1028.7	1039.7	1049.0	1078.6	1116.9	1168.9	1228.6	1291.1	1359.6	1370.0
12.5°	976.1	986.5	996.9	1022.7	1070.3	1133.9	1214.9	1298.8	1385.9	1400.6
15°	957.5	966.8	975.0	998.0	1042.4	1114.7	1212.2	1314.6	1419.3	1439.0
17.5°	960.2	965.2	970.6	988.2	1031.4	1105.9	1217.1	1342.0	1458.7	1476.2
20°	976.1	978.9	979.4	991.5	1029.8	1104.8	1227.0	1368.3	1496.0	1519.5
22.5°	996.4	997.5	996.4	1004.6	1040.2	1113.1	1240.1	1400.1	1537.6	1559.5
25°	1091.2	1070.3	1044.0	1028.2	1057.7	1129.0	1259.9	1442.8	1583.0	1604.4
27.5°	1385.3	1325.6	1231.4	1125.7	1093.9	1152.0	1287.3	1486.1	1629.1	1648.2
30°	1863.0	1784.6	1624.7	1386.4	1210.0	1200.2	1322.9	1529.4	1677.8	1698.6
32.5°	2341.7	2322.5	2137.9	1808.2	1471.3	1307.5	1382.0	1588.0	1742.5	1758.9
35°	2825.9	2787.0	2635.9	2309.9	1873.9	1526.1	1480.6	1664.7	1827.4	1846.0
37.5°	3196.8	3173.2	3079.6	2811.1	2351.6	1863.5	1649.3	1783.5	1950.6	1971.4
40°	3524.3	3513.4	3481.6	3304.7	2885.6	2305.0	1911.7	1967.6	2121.5	2146.2
42.5°	3781.8	3807.5	3825.6	3776.3	3436.1	2809.0	2264.5	2226.1	2359.8	2385.0
45°	4045.3	4054.0	4126.9	4198.1	3982.8	3335.9	2662.2	2529.0	2656.1	2687.4
47.5°	4214.5	4249.6	4377.8	4503.2	4442.4	3858.5	3089.4	2886.7	2999.6	3058.2
50°	4227.1	4293.4	4469.8	4688.3	4777.1	4355.9	3553.9	3294.3	3414.2	3478.9
52.5°	4017.3	4120.3	4393.6	4713.5	4957.8	4777.1	4034.3	3701.8	3855.7	3940.1
55°	3080.1	3214.9	4107.2	4576.6	4965.0	5096.4	4502.1	4126.3	4347.6	4442.9
57.5°	2683.5	2751.4	3229.1	4338.9	4833.0	5225.2	4925.0	4530.6	4882.8	5001.1
60°	2232.7	2322.0	2708.2	3950.0	4653.8	5237.8	5298.6	5052.1	5462.9	5596.0
62.5°	1517.3	1614.3	1998.3	3281.7	4409.0	5231.7	5604.8	5588.9	6107.6	6250.6
65°	940.0	1000.8	1253.8	2679.7	4066.6	5238.3	5925.2	6240.7	6787.9	6933.1
67.5°	742.8	770.7	902.7	2057.4	3476.7	5090.4	6245.1	6853.7	7428.3	7543.3
70°	499.0	516.0	656.8	1379.3	2586.6	4407.9	6239.1	7161.5	7758.0	7815.6
72.5°	262.9	276.1	384.0	638.7	1562.2	3133.2	5259.1	6793.4	7429.9	7343.4
75°	131.5	153.4	258.5	324.3	667.2	1747.4	3265.8	5356.1	5848.0	5512.7
77.5°	99.7	120.5	213.6	213.6	232.3	588.3	1383.1	2921.2	2694.5	2243.7
80°	63.5	82.2	186.8	161.6	97.0	149.5	360.4	818.4	572.4	435.5
82.5°	37.2	53.7	155.6	106.8	54.2	55.3	101.9	174.2	148.4	115.6
85°	14.8	35.1	106.8	42.2	21.4	13.7	30.7	37.2	30.7	23.0
87.5°	0.0	8.2	18.6	0.0	1.6	1.1	2.2	2.7	2.7	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1353.0	0°	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0	1353.0
1354.1	2.5°	1359.0	1360.1	1363.4	1363.9	1356.3	1346.4	1342.6	1340.9	1334.4	1333.8
1362.8	5°	1375.4	1380.4	1375.4	1361.2	1327.2	1279.6	1243.4	1213.9	1187.0	1178.8
1393.0	7.5°	1408.3	1413.2	1398.5	1342.6	1257.1	1162.4	1076.9	1016.7	962.4	942.2
1429.7	10°	1455.4	1462.0	1415.4	1302.6	1151.4	999.1	854.5	752.6	673.2	640.9
1479.5	12.5°	1514.6	1517.3	1424.7	1241.8	1013.9	796.5	591.6	482.6	411.9	385.6
1539.8	15°	1579.8	1575.9	1425.8	1159.1	826.6	563.1	386.2	317.2	288.7	279.9
1600.0	17.5°	1648.2	1632.3	1403.9	1039.7	621.2	385.1	286.5	270.0	265.1	262.9
1659.7	20°	1715.6	1680.0	1363.9	883.6	445.9	287.6	260.2	255.3	252.5	251.4
1720.0	22.5°	1777.0	1716.2	1295.5	702.2	323.7	254.2	245.9	241.6	236.6	234.4
1778.6	25°	1836.7	1737.0	1199.1	533.0	259.1	237.7	231.2	222.9	216.4	213.6
1841.6	27.5°	1894.7	1750.1	1078.6	394.4	231.2	222.4	210.3	198.8	193.9	192.8
1909.0	30°	1956.6	1754.5	941.6	294.2	214.2	203.2	185.7	172.5	169.8	170.4
1999.9	32.5°	2032.2	1761.1	803.6	241.0	199.9	180.2	159.4	145.7	143.5	145.7
2132.5	35°	2122.6	1774.2	670.5	221.8	187.3	156.7	134.2	122.7	120.5	122.2
2302.3	37.5°	2245.3	1795.6	546.1	218.0	176.9	136.9	112.8	103.5	103.5	104.1
2510.4	40°	2408.5	1852.6	434.9	215.3	171.5	122.2	95.3	91.5	93.1	94.2
2775.5	42.5°	2607.4	1973.6	359.9	212.0	165.4	115.6	86.5	84.9	87.6	88.7
3093.2	45°	2830.3	2127.0	333.6	206.5	159.9	120.0	82.7	80.5	83.8	84.4
3449.3	47.5°	3060.9	2277.1	330.3	200.5	154.5	126.5	81.6	76.7	80.5	81.1
3829.4	50°	3294.3	2375.1	333.6	191.2	145.7	126.5	82.2	72.9	76.1	77.8
4223.8	52.5°	3529.3	2420.0	331.4	170.9	130.4	118.9	82.2	69.6	72.9	73.9
4650.0	55°	3757.1	2411.3	298.0	140.8	110.6	105.2	80.0	66.8	69.0	69.6
5052.6	57.5°	3937.4	2289.1	236.1	109.6	89.8	87.6	72.9	63.5	65.2	64.6
5421.8	60°	4031.6	2020.7	168.7	84.4	70.7	69.0	64.1	59.2	60.3	57.5
5734.6	62.5°	4032.7	1665.8	112.8	66.8	56.4	54.8	54.8	53.1	52.0	46.6
5976.7	65°	3946.7	1271.9	75.0	53.1	45.5	42.7	46.0	45.5	41.6	34.0
6050.6	67.5°	3751.7	833.7	57.0	41.6	35.1	33.4	36.7	38.3	35.6	28.5
5781.1	70°	3350.7	485.3	47.1	32.3	26.3	24.6	29.6	32.9	29.6	23.0
4941.4	72.5°	2783.2	261.8	38.3	24.1	18.1	16.4	23.6	26.8	23.6	17.0
3170.5	75°	1806.0	140.2	29.6	15.9	9.3	10.4	17.5	19.7	16.4	11.0
930.7	77.5°	606.4	61.9	18.6	7.7	4.4	4.4	10.4	12.1	7.7	3.8
169.3	80°	135.3	25.7	7.7	3.3	1.6	1.6	2.2	2.2	1.1	0.0
52.0	82.5°	44.4	10.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.1	85°	17.0	3.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	6.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
1353.0
1334.9
1173.9
933.9
627.2
377.4
279.9
262.4
250.3
233.9
212.5
191.7
170.4
145.2
121.6
103.5
94.2
88.7
84.9
81.6
78.3
73.9
69.6
64.6
57.0
44.9
32.9
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21.9
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